

Product Name :
Advanced Hydrology Study System

Product Code :
NLAB-TECHNICALAB26009

Description :

Advanced Hydrology Study System

Technical Specification :

A self contained floor standing apparatus for hydrology and fluvial geomorphology demonstrations, comprising:
A 2m x 1m stainless steel tank, tiltable using a dual linked jacking system
8 stainless steel spray nozzles mounted on an adjustable height gantry
A still tank providing a formed flow river inlet
Two flowmeters (3L/min & 5L/min) to measure and adjust the inlet flows
An outlet tank allowing both water and sediment flow to be measured
Two French drains, two well points and 20 manometer tapping points linked to a manometer bank
A large plastic sump tank plus a recirculating pump

Experimental capabilities include:

Run-off hydrographs from model catchments
Draw-down curves for one well and two well systems
Ground water flow and hydraulic gradients
Model stream flow in alluvial material
Formation and development of river features over time
Sediment transport, bedload motion, scour and erosion

A version is available with instrumentation to measure both water and sediment run-off in real time.
The package included data logging and educational software, (requires a customer provided PC).
Stilled inlet tank provides developed river flow conditions, allowing the full length of the tank to be used for river simulations
Novel outlet tank design for water flow and sediment flow measurement
Stainless steel sand tank
Dual jacks provide adjustable tilt
Adjustable spray nozzle height
Use of fine grade sand allows detailed feature development
Single grade of sand for all defined demonstrations, no need to change the sand
Control and measurement of inlet flows
Flexible configuration allows a wide range of simulations
Flexible configuration allows a wide range of simulations
Computer data logging option for sediment and water outlet flow measurement

Naugralabequipments

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